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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/605,744	10/23/2003	Gong-Sheng Lin	MTKP0086USA	2743	
	7590 07/28/200 RICA INTELLECTUA	8 L PROPERTY CORPORATION	EXAMINER		
P.O. BOX 506	P.O. BOX 506			FINDLEY, CHRISTOPHER G	
MEKKIFIELD,	MERRIFIELD, VA 22116		ART UNIT	PAPER NUMBER	
		2621			
			NOTIFICATION DATE	DELIVERY MODE	
			07/28/2008	ELECTRONIC	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

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		Application No.	Applicant(s)	
		10/605,744	LIN ET AL.	
	Office Action Summary	Examiner	Art Unit	
		CHRISTOPHER FINDLEY	2621	
Period fo	The MAILING DATE of this communication apլ ու Ranky	pears on the cover sheet with the c	orrespondence address	
A SHO WHIC - Exter after - If NO - Failui Any r	ORTENED STATUTORY PERIOD FOR REPLECTION OF THE MAILING DESIGNATION OF THE M	ATE OF THIS COMMUNICATION 136(a). In no event, however, may a reply be tin will apply and will expire SIX (6) MONTHS from e, cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).	
Status				
2a)⊠	Responsive to communication(s) filed on <u>26 M</u> This action is FINAL . 2b) This Since this application is in condition for allowa closed in accordance with the practice under M	s action is non-final. nce except for formal matters, pro		
Dispositi	on of Claims			
5)□ 6)⊠ 7)□ 8)□ Applicati 9)□	Claim(s) 1,5-8,10-19 and 21-26 is/are pending 4a) Of the above claim(s) is/are withdra Claim(s) is/are allowed. Claim(s) 1,5-8,10-19 and 21-26 is/are rejected Claim(s) is/are objected to. Claim(s) are subject to restriction and/or on Papers The specification is objected to by the Examine The drawing(s) filed on is/are: a) according and is/are: a)	wn from consideration. I. or election requirement. er.	≣xaminer.	
_	Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct The oath or declaration is objected to by the Ex	drawing(s) be held in abeyance. See tion is required if the drawing(s) is obj	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).	
Priority u	ınder 35 U.S.C. § 119			
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 				
2) Notic 3) Inforr	t(s) e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO/SB/08) r No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	ate	

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DETAILED ACTION

1. The Examiner notes that claims 25 and 26 have been added via the amendment filed 3/26/2008.

Response to Arguments

- 2. Applicant's arguments filed 3/26/2008 have been fully considered but they are not persuasive.
- 3. Re claims 1 and 16, the Applicant contends that Sekiguchi fails to teach or suggest transmitting a lookup table via the change-over unit to a decoding unit only when the lookup table is required for completing the decoding process. However, the Examiner respectfully disagrees. Sekiguchi discloses that the MBTYPE table selection information decoding unit 111 and the MODB decoding unit 113 control the path of the change-over units 114 and 116, respectively, thereby only decoding blocks according to a certain type in the MBTYPE table when required (Sekiguchi: Fig. 30). Additionally, Sekiguchi discloses that a quantization step size is changed only when a quantization step change is indicated, otherwise the step size is unchanged (Sekiguchi: Fig. 27, steps ST65, ST66, ST67; column 21, lines 34-43).
- 4. Re claim 10, the Applicant contends that Sekiguchi fails to teach or suggest that the multiplexer cited has a plurality of inputs respectively connected to outputs of the plurality of video decoding modules and having an output connected to the memory. However, the Examiner respectfully disagrees. Sekiguchi discloses in the motion compensating unit shown in Figs. 29 and 31 that decoded shape data 318 and motion

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information 310 are fed as inputs to the motion compensating unit (Sekiguchi: Fig. 29, motion compensating unit 104; Fig. 31, shows the internal architecture of motion compensating unit 104), wherein the decoded shape data 318 is output from the shape decoding unit 102 (Sekiguchi: Fig. 29, shape decoding unit 102 and decoded shape data 318) and the motion information 310 is output from motion information decoding unit 127 (Sekiguchi: Fig. 30, motion information decoding unit 127 and motion information 310). Furthermore, the output of the motion compensating unit 104 is connected to memory 75 (Sekiguchi: Fig. 29, memory 75; Fig. 31, memory 75).

- 5. Re claim 10, the Applicant also contends that Sekiguchi fails to teach or suggest storing the outputs of the prediction units shown in Sekiguchi Fig. 31 to the memory 75. However, the Examiner respectfully disagrees. Sekiguchi discloses that decoded picture signals are written to memory 75 to be used as reference pictures (Sekiguchi: column 20, line 66-column 21, line 3), and Sekiguchi additionally indicates a bidirectional arrow between the prediction units and memory 75 (Sekiguchi: Figs. 25 and 31).
- 6. Re claim 10, the Applicant contends that the shape data taught by Sekiguchi is different from the claimed texture information. The Examiner acknowledges that Sekiguchi does not explicitly disclose texture information. However, the Examiner also notes that the claim language reciting texture information was not previously presented, and, as such has been addressed in the detailed action included below.

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Claim Rejections - 35 USC § 102

7. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.
- 8. Claims 1, 5-8, 16-19, 21, and 23-26 are rejected under 35 U.S.C. 102(a) as being anticipated by Sekiguchi et al. (US 6493385 B1).

Re **claim 1**, Sekiguchi discloses a video decoding unit for decoding a predetermined plurality of different video object plane (VOP) types (Sekiguchi: Fig. 10; coding modes listed include intra-coding, bidirectional prediction, and both forward and backward prediction), the decoding unit comprising: at least one decoding module capable of decoding a predetermined signal in each of the predetermined plurality of different VOP types and outputting a decoded result specifically corresponding to the VOP type currently being decoded (Sekiguchi: Fig. 30; decoding is carried out by the decoder corresponding to MB Type); the decoded result is based upon a predetermined lookup table specifically corresponding to the VOP type currently being decoded, and the predetermined lookup table specifically corresponding to the VOP type currently being decoded is selected from a plurality of predetermined lookup tables specifically and respectively corresponding to the predetermined plurality of VOP types (Sekiguchi: Fig. 30; decoding is carried out by the decoder corresponding to MB Type; column 13, lines 19-31 and 49-63. The specific parameters are for each coding mode are registered in the MBTYPE tables for each coding mode which occurs through the change-over unit

116 (Fig.30), since both the control signal 302 and coded bit stream 316 (via blocks 112, 113, and 114) are fed into the change-over unit 116, and not directly to the MBTYPE decoding units 117 and 118); and a switching circuit connected to the decoding module for determining which of the predetermined plurality of VOP types the decoding module is to decode (Sekiguchi: Fig. 30, element 116; Fig. 29, element 76, further detailed by Fig. 31), wherein the predetermined lookup table specifically corresponding to the VOP type the decoding module is to decode is transmitted from the switching circuit to the decoding module only when the decoding module requires the predetermined lookup table to complete the decoding of the VOP type (Sekiguchi: Fig. 30, the MBTYPE table selection information decoding unit 111 and the MODB decoding unit 113 control the path of the change-over units 114 and 116, respectively, thereby only decoding blocks according to a certain type in the MBTYPE table when required; Fig. 27, steps ST65, ST66, ST67; column 21, lines 34-43, quantization step size is changed only when a quantization step change is indicated, otherwise the step size is unchanged).

Re **claim 5**, Sekiguchi discloses a motion compensation unit (Sekiguchi: Fig. 29, element 104), the motion compensation unit receiving multiple inputs from the SYNTAX ANALYSIS AND VARIABLE LENGTH DECODING UNIT (Sekiguchi: Fig. 29, element 101), which corresponds to Fig. 30 of Sekiguchi. The internal working of the motion compensation unit is shown in Fig. 31 of Sekiguchi. In the motion compensation unit, a change-over is performed in response to the MBTYPE (Sekiguchi: Fig. 31, element

141). The output from the selected prediction unit is then sent to the memory (Sekiguchi: Figs. 29 and 31, element 75).

Re **claim 6**, Sekiguchi discloses that the output of a multiplexer is determined by a switching circuit (Sekiguchi: Fig. 31, MBTYPE 308 determines, via the change-over unit 141, which prediction unit receives the motion information 310, and thus the corresponding output).

Re claim 7, the MB type from Figs. 9 and 10 of Sekiguchi (which indicate the coding mode) are used by the change-over unit 116 in Fig. 30, and the signal is passed to the decoding unit (either 117 or 118) depending on the MB type. The path set by the change-over unit remains fixed until the MB type indicates the other decoder to be used. Therefore, the path set between the change-over unit 116 and the decoding unit (117 or 118) based on the MB type acts as a VOP type indicating flag, where the flag indicates which decoding unit to be used.

Claim 8 has been analyzed and rejected in view of the analysis for claim 7 above.

Re claim 16, Sekiguchi discloses a method for decoding a plurality of different types of MPEG video object planes (VOP), the method comprising: providing a decoding module capable of decoding a predetermined signal in the different types of VOP (Sekiguchi: Fig. 33/ST95); and indicating to the decoding module which of the different types of VOP the decoding module is to decode (Sekiguchi: Fig. 33/ST96 and ST98); the decoding module accessing a lookup table specifically corresponding to the indicated type of VOP to decode the predetermined signal (Sekiguchi: Fig. 30, decoding

units 117 and 118 include MBTYPE tables; Figs. 9 and 10, MBTYPE tables correspond to different VOP types (i.e., prediction modes)); and transmitting the corresponding lookup table of the type of VOP the decoding module is to decode from a switching circuit to the decoding module only when the decoding module requires the predetermined lookup table to complete the decoding of the VOP type (Sekiguchi: Fig. 30, the MBTYPE table selection information decoding unit 111 and the MODB decoding unit 113 control the path of the change-over units 114 and 116, respectively, thereby only decoding blocks according to a certain type in the MBTYPE table when required; Fig. 27, steps ST65, ST66, ST67; column 21, lines 34-43, quantization step size is changed only when a quantization step change is indicated, otherwise the step size is unchanged), wherein the type of VOP the decoding module is to decode is indicated by the switching circuit (Sekiguchi: Fig. 30, element 116; Fig. 29, element 76, further detailed by Fig. 31).

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Re claim 17, Sekiguchi discloses that, referring to Fig. 30, "The MBTYPE-1 table of the MBTYPE-1 decoding unit 117 and the MBTYPE-2 table of the MBTYPE-2 decoding unit 118 respectively have contents shown in FIG. 9 or FIG. 10 described in the picture coding apparatus of the second embodiment (column 23, lines 19-23)." Figs. 9 and 10 show different coding modes, including intra-coding, bidirectional prediction, and both forward and backward prediction. Furthermore, Sekiguchi discloses in column 13, lines 19-31 and 49-63, that the code-word indicating each coding mode is registered to the MBTYPE-1 or MBTYPE-2 decoding unit. Since each

coding-mode has unique properties, and uses different parameters, the table for each coding-mode is unique.

Re **claim 18**, the MB type from Figs. 9 and 10 of Sekiguchi (which indicate the coding mode) are used by the change-over unit 116 in Fig. 30, and the signal is passed to the decoding unit (either 117 or 118) depending on the MB type. The path set by the change-over unit remains fixed until the MB type indicates the other decoder to be used. Therefore, the path set between the change-over unit 116 and the decoding unit (117 or 118) based on the MB type acts as a VOP type indicating flag, where the flag indicates which decoding unit to be used.

Claim 19 has been analyzed and rejected in view of the analysis for claim 18 above.

Re **claim 21**, Sekiguchi discloses that the decoding module is capable of storing a lookup table including lookup table information corresponding to the different VOP types (Sekiguchi: Figs. 9 and 10; Fig. 30, elements 117 and 118).

Re **claim 23**, Sekiguchi discloses that the decoding module is capable Of storing a lookup table including lookup table information corresponding to the different VOP types (Sekiguchi: Figs. 9 and 10; Fig. 30, elements 117 and 118).

Re claim 24, Sekiguchi discloses a motion compensation unit (Sekiguchi: Fig. 29, element 104), the motion compensation unit receiving multiple inputs from the SYNTAX ANALYSIS AND VARIABLE LENGTH DECODING UNIT (Sekiguchi: Fig. 29, element 101), which corresponds to Fig. 30 of Sekiguchi. The internal working of the motion compensation unit is shown in Fig. 31 of Sekiguchi. In the motion compensation

unit, a change-over is performed in response to the MBTYPE (Sekiguchi: Fig. 31, element 141). The output from the selected prediction unit is then sent to the memory (Sekiguchi: Figs. 29 and 31, element 75).

Re claim 25, Sekiguchi discloses a video decoding unit for decoding a predetermined plurality of different video object plane (VOP) types, the decoding unit comprising: at least one decoding module capable of decoding a predetermined signal in each of the predetermined plurality of different VOP types and outputting a decoded result specifically corresponding to the VOP type currently being decoded (Sekiguchi: Fig. 30; decoding is carried out by the decoder corresponding to MB Type); a switching circuit connected to the decoding module for determining which of the predetermined plurality of VOP types the decoding module is to decode (Sekiguchi: Fig. 30, element 116; Fig. 29, element 76, further detailed by Fig. 31); and a multiplexer having an input connected to an output of the decoding module for selectively outputting the decoded result to a memory for further processing (Sekiguchi: Figs. 29 and 31, decoded shape data 318 and motion information 310 are fed as inputs to the motion compensating unit 104; Fig. 29, decoded shape data 318 is output from the shape decoding unit 102; Fig. 30, the motion information 310 is output from motion information decoding unit 127; Figs. 29 and 31, memory 75, the output of the motion compensating unit 104 is connected to memory 75).

Claim 26 recites the corresponding method for implementation by the decoding unit of claim 25, and, therefore, has been analyzed and rejected with respect to claim 25 above.

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Claim Rejections - 35 USC § 103

9. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 10. The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:
 - 1. Determining the scope and contents of the prior art.
 - 2. Ascertaining the differences between the prior art and the claims at issue.
 - 3. Resolving the level of ordinary skill in the pertinent art.
 - 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.
- 11. Claims 10-15 and 22 are rejected under 35 U.S.C. 103(a) as being unpatentable over Sekiguchi et al. (US 6493385 B1) in view of Moon et al. (US 6307885 B1).

Re claim 10, Sekiguchi discloses a device comprising: a memory (Sekiguchi: Figs 29 and 31, element 75); a plurality of video decoding modules, each video decoding module capable of decoding a predetermined signal in a Data-partitioned intra video object plane (DP-I VOP) and capable of decoding the predetermined signal in a Data partitioned predicted video object plane (DP-P VOP) (Sekiguchi: The motion compensation unit (Sekiguchi: Fig. 29, element 104; Fig. 31) is receives decoded shape data (Sekiguchi: Fig. 31, input 318) and motion information (Sekiguchi: Fig. 31, input

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310). Therefore, the system processes data partitioned VOPs, since the motion compensation unit processes separate signals for the shape data and motion data (Sekiguchi: Fig. 31, motion information 310 and decoded shape data 318)) and outputting a decoded result according to the type of VOP; a multiplexer having inputs respectively connected to outputs of the plurality of video decoding module and having an output connected to the memory (Sekiquchi discloses a motion compensation unit (Sekiquchi: Fig. 29, element 104), the motion compensation unit receiving multiple inputs from the SYNTAX ANALYSIS AND VARIABLE LENGTH DECODING UNIT (Sekiguchi: Fig. 29, element 101), which corresponds to Fig. 30 of Sekiguchi. The internal working of the motion compensation unit is shown in Fig. 31 of Sekiguchi. In the motion compensation unit, a change-over is performed in response to the MBTYPE (Sekiquchi: Fig. 31, element 141). The output from the selected prediction unit is then sent to the memory (Sekiguchi: Figs. 29 and 31, element 75)) and a switching circuit connected to the plurality of video decoding modules for indicating to each decoding module which type of VOP is to be decoded and connected to the multiplexer for controlling which decoded result is transmitted to the memory (Sekiguchi: MBTYPE 308 is connected to the change-over unit 141 of Sekiguchi Fig. 31, which controls what prediction unit sends data to the memory 75).

Sekiguchi discloses that the motion compensation unit processes separate signals for the shape data and motion data (Sekiguchi: Fig. 31, motion information 310 and decoded shape data 318), thus indicating that the VOPs are data partitioned, but Sekiguchi does not explicitly disclose that the data partitioned VOPs include separate

texture information. However, Moon discloses a device and method of coding and decoding image information, wherein a demultiplexed MPEG-4 image signal, processed by a BBM technique, is transferred to a shape decoding section, a motion decoding section, and a texture decoding section (Moon: Fig. 19, elements R42, R43, and R47; column 17, lines 18-20). Since both Sekiguchi and Moon relate to processing image bitstreams comprised of partitioned image data, one of ordinary skill in the art at the time of the invention would have found it obvious to combine the BBM merging processing of Moon with the image coding scheme of Sekiguchi in order to enhance an efficiency in coding a boundary block between object and background images (Moon: column 4, line 63-column 5, line 2).

Re claim 11, Sekiguchi discloses that, referring to Fig. 30, "The MBTYPE-1 table of the MBTYPE-1 decoding unit 117 and the MBTYPE-2 table of the MBTYPE-2 decoding unit 118 respectively have contents shown in FIG. 9 or FIG. 10 described in the picture coding apparatus of the second embodiment (Sekiguchi: column 23, lines 19-23)." Figs. 9 and 10 show different coding modes, including intra-coding, bidirectional prediction, and both forward and backward prediction. Furthermore, Sekiguchi discloses in column 13, lines 19-31 and 49-63, that the code-word indicating each coding mode is registered to the MBTYPE-1 or MBTYPE-2 decoding unit. Since each coding-mode has unique properties, and uses different parameters, the table for each coding-mode is unique.

Claim 12 has been analyzed and rejected in view of the analysis for claim 11 above.

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Re claim 13, Sekiguchi discloses that the predetermined lookup table specifically corresponding to the VOP type the decoding module is to decode is transmitted from the switching circuit to the decoding module (Sekiguchi: column 13, lines 19-31 and 49-63; The specific parameters are for each coding mode are registered in the MBTYPE tables for each coding mode. This occurs through the change-over unit 116 (Fig.30), since both the control signal 302 and coded bit stream 316 (via blocks 112, 113, and 114) are fed into the change-over unit 116, and not directly to the MBTYPE decoding units 117 and 118) only when the decoding module requires the predetermined lookup table to complete the decoding of the VOP type (Sekiguchi: Fig. 30, the MBTYPE table selection information decoding unit 111 and the MODB decoding unit 113 control the path of the change-over units 114 and 116, respectively, thereby only decoding blocks according to a certain type in the MBTYPE table when required).

Re **claim 14**, the MB type from Figs. 9 and 10 of Sekiguchi (which indicate the coding mode) are used by the change-over unit 116 in Fig. 30, and the signal is passed to the decoding unit (either 117 or 118) depending on the MB type. The path set by the change-over unit remains fixed until the MB type indicates the other decoder to be used. Therefore, the path set between the change-over unit 116 and the decoding unit (117 or 118) based on the MB type acts as a VOP type indicating flag, where the flag indicates which decoding unit to be used.

Claim 15 has been analyzed and rejected in view of the analysis for claim 14 above.

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Re **claim 22**, Sekiguchi discloses that each video decoding module is capable of storing a lookup table including lookup table information corresponding to a DP-I VOP and a DP-P VOP (Sekiguchi: The motion compensation unit (Sekiguchi: Fig. 29, element 104; Fig. 31) is receives decoded shape data (Sekiguchi: Fig. 31, input 318) and motion information (Sekiguchi: Fig. 31, input 310). Therefore, the system processes data partitioned VOPs, since the motion compensation unit processes separate signals for the shape data and motion data (Sekiguchi: Fig. 31, motion information 310 and decoded shape data 318)).

Conclusion

- 12. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure:
 - a. Image decoder, image encoder, image communication system, and encoded bit stream converter; Isu et al. (US 6862320 B1)
 - b. Image editing apparatus and method; Itokawa (US 7058128 B1)
 - c. Predictive encoding and decoding methods of video data; Jozawa et al. (US 6785331 B1)
 - d. Apparatus for system decoder and method for error correction of packet data; Suzuki et al. (US 7131048 B2)
 - e. Information processing method and apparatus; Nakagawa et al. (US 6810131 B2)

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f. View offset estimation for stereoscopic video coding; Chen (US 6043838

A)

CFR 1.136(a).

13. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Contact

Any inquiry concerning this communication or earlier communications from the examiner should be directed to CHRISTOPHER FINDLEY whose telephone number is (571)270-1199. The examiner can normally be reached on Monday through Friday, 8:30AM-5:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Marsha D. Banks-Harold can be reached on 571-272-7905. The fax phone

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number for the organization where this application or proceeding is assigned is 571-273-8300.

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/Marsha D. Banks-Harold/ Supervisory Patent Examiner, Art Unit 2621 /Christopher Findley/